



Technical Committee Meeting
Jan 18th 2017

Attendees:

George Kuhn – Chandler Concrete
Teck Chua – Vulcan Materials
Derek Imperial – Swope & Associates
Bill Denison – ECS
Kevin Goode – S.B. Cox
David Van Wyhe – Lynchburg Ready Mix
Michael Robinson – Stalite
Marie Derby – Argos
Chris Conner – Luck Stone
Bob Swope – Swope & Associates
Matthew Jones – Ash Venture
Larry Necessary – Roanoke Cement

I Call to order by George Kuhn 10:05

II Antitrust statement passed around

III Minutes from Oct 19, 2016 to be distributed with minutes from this meeting

IV Old business

- A) George conducted a tutorial on the location of various VDOT documents available online at the following site: www.virginiadot.org -> Business Center -> Manuals, Guides and Instructional & Informational Memoranda ->

From the Road and Bridge Specifications link:

1. Adobe PDF File (direct link to the 2016 Road & Bridge Specs):
http://www.virginiadot.org/business/resources/const/VDOT_2016_RB_Specs.pdf
2. Publication Sales Form (link to purchase a hard copy of the 2016 Specs):
http://www.virginiadot.org/business/resources/const/pub_sales_form.pdf
3. 2017 Supplement to the 2016 Spec Book (contains all the revisions):
http://www.virginiadot.org/business/resources/const/2017_Supplement_to_2016_Specifications.pdf
4. WinZip Format File (contains a downloadable file showing all the special provisions on file)
5. George stated that if a project contained a special provision that is not the most recent, it was worth bringing it up to Cont/Eng to try to change to the updated version.

From the Manual of Instructions link, each of the chapters of the current Manual of Instructions

George stated that the process to change the spec book requires an internal review of the suggested change, and if approved, it becomes part of the provisionals. He also stated that one suggestion being considered is to update the spec book annually, and have available online, instead of the past norm of a 3 year update schedule.

B) Type I-L Cement

Bob Swope gave update. Celik has tested I-L samples from Essroc, Roanoke Cement and Lehigh and found results equal to I/II with agreement from Larry Lundy. Larry is willing to work to remove the wording in 217 stating “at engineer’s approval” if needed.

C) Mass Concrete

George reported that the 12-21-16 revision is the latest. The “shall not exceed A4” provision was discussed. George reported Larry removed the max W/C limits.

Discussion of the difference between a description of a unit or a dimension, Celik is working to come up with a screening criteria based on minimum dimension, cement content, etc...

Lundy is adding a statement of 56 day strength for acceptance. SP addresses maximum temperature differential.

George reported Bob Neal’s comments that ACI reports should not be referenced, and that Lundy agreed when alerted and will be looking to remove references in sec III A 1.2 and 3.

D) Patching

George reported that patching SP is not owned by the Materials division, but Payment and Design. They are the only ones who can authorize the inclusion of Temperature Matched Curing.

George reported that the timeline for a particular project being out of service is project specific. The contractor dictates the timeline for reaching strength based on their schedule. Lundy said there is no overriding time requirement, VDOT is only concerned with the strength as required.

E) Cold Weather Concrete

Discussion of the testing environment conditions. VRMCA supports changes that would encourage the testing be followed properly and the addition of wording that makes this specific to get correct testing done in the field.

F) Low Cracking Concrete

Ltwt method does not require advance testing, the SRA method does. Suggestion of a dosage rate (1.5 gal for example) that would qualify without advance testing. Discussion of where the 1.5 gal number came from (advance testing, other states?). Switching between the two methods is not allowed based on deflection and design. Continued discussion on the advance testing being a lab test method. The call for field testing on particular products leads to a need for a VTM on how to do this, since no established method exists.

Tech stated we would be better off with a minimum dosage rate, and the committee agreed to move forward with this as our official position to avoid the need for field tests.

G) Supplier Issues

Type I-L Cement – reported on previously

Minus 200 Fines – Special provision/pilot projects to allow use of high fines manufactured sands. Tech reported his use of high fines #10s, but on his project 10% minus 200 was not economically feasible and they ended up staying below 5% on a combined blended basis.

Admixture Approvals – Swope still working on a timeline, the current 1 year approval is a change from previous 6 month acceptance criteria. He would like to see it return to 6 months for acceptance.

H) Permeability Payment Penalty – closed item, unless anyone brings it back up for consideration.

I) Retarder set times – waiting on VTRC input on test methodology

J) Point of Concrete Sampling – draft language proposed by Bob Neal was resent to Lundy. He is planning to place into the MOI.

- K) TL 27, TL 28 – PowerPoint presentation put together by Keiper was revisited. Discussion of separating the 2 forms into separate projects. TL 28: Keiper has agreed to revisit the draft option 1 form he created, and also to create draft form to cover options 2&3. He will present at the April meeting. TL 27: Lundy is agreeable to strip the mix recordation portions from the form, and move to a form that still allows verification of item and quantities received as a payment log. Keiper will revise this as well for presentation.
- L) RCC – there is a link on VDOT site that includes a preliminary report on how RCC works and how it is tested. Request has been made to VDOT to let us know when final report is available for review.
- M) Design Build Testing Issues – QAM is hired by VDOT, but paid by contractor. They represent VDOT, but no one from VDOT is there to require or enforce compliance. If QAM does not do their job, the quality system can suffer.
- N) Shotcrete – removed from old business, all resolved by nozzleman certification which is not a ready mix specific issue
- O) Contractor QC – removed from old business, no activity on VDOT level. Will revisit if VDOT puts back on their agenda.

V New Business

- A) Lightweight
There is a lightweight SP that will be attached to the minutes. The intent is to have a default unit weight that lightweight concrete will meet, unless otherwise specified in the contract. The unit weight will be based on fresh unit weight, which is something that can be easily tested in the field. The committee should review the SP for comments.
- B) Pervious
Research Council wants to compare pervious asphalt to pervious concrete. There is a SP that has been created for the I81 Park & Ride at exit 140 in Salem. SP will be distributed with minutes for review and comments.
- C) ACI
There is a seminar scheduled next week to review OSHA's new Silica Requirements and their impact. Flatwork seminars are scheduled – see the Virginia ACI website @ <http://www.vachp-aci.com/>
Concrete Conference is scheduled for March 2&3.
- D) NRMCA has scheduled a Pervious Contractor Certification Class

VI Topics for Future Meetings

- A) Shotcrete – Tech to provide more information.
- B) Pumping – Eric Misenheimer was involved in the Carolinas Concrete Association seminar some years back.
- C) Flowable Fill
Bill Dennison will put together a presentation on thermal properties for the April meeting.

VII Future Dates as listed on the Meeting Agenda

VIII Adjournment – meeting was adjourned at 12:00pm

Thanks to Larry Necessary for taking minutes.